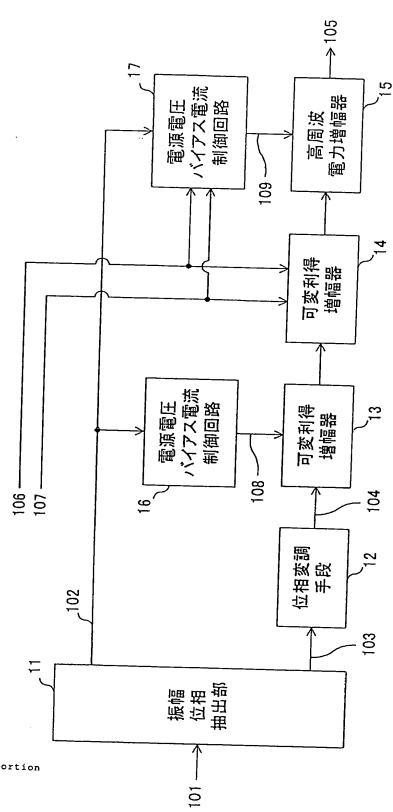
Fg.



11: amplitude/phase extraction portion

l2: phase modulation means

l3: variable gain amplifier

14: variable gain amplifier

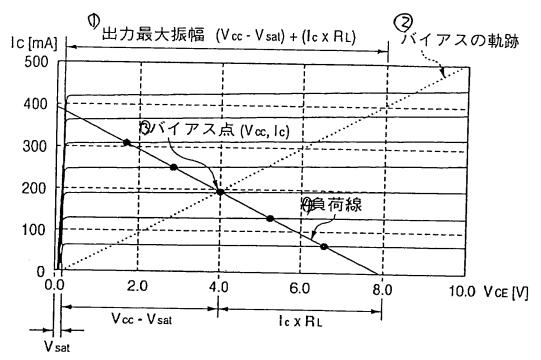
13. high-frequency power amplifier

1/9

16: supply voltage/bias current control circuit

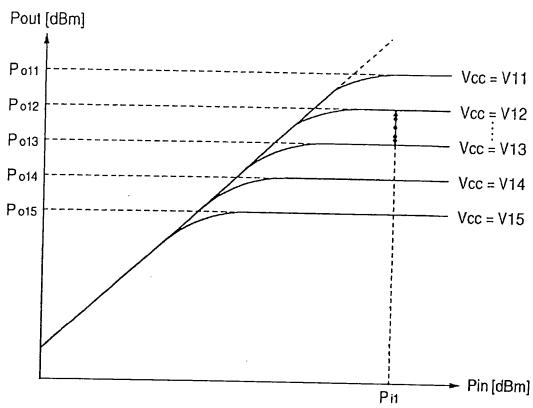
17: supply voltage/bias current control circuit

Fig.Z



maximum output amplitude
locus of bias
bias point
load line





F13.4

of supply voltage/bias current control

time

| 1 inear operating mode
| 3 gain of variable gain amplifier 14
| 4 voltage of supply voltage/bias curren

 $(\widehat{oldsymbol{eta}})$ current of supply voltage/bias current control

circuit 17

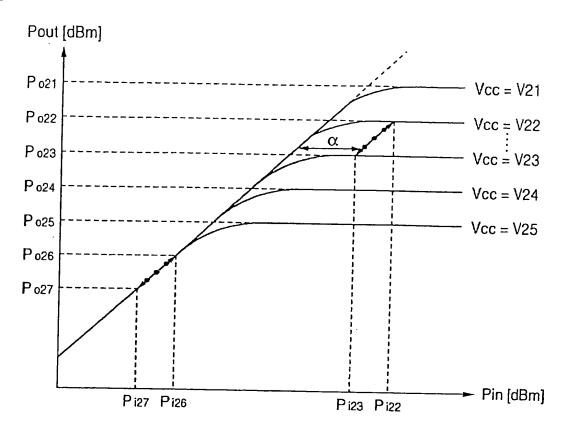
電源電圧 バイアス電流 制御回路 Ø17の電流 1(1,3) 1(1,4) 1(1,5) : : : 1(1,6) Ĭ,1 I(n,2)I(n,3) I(n,4) I(n,5) I(n,6)電源電圧 バイアス電流 制御回路 **0**17の電圧 飽和動作モ V(1,5) V(1,6) V(n,2) V(n,3) V(n,4) V(n,5) 8 可変利得 増幅器14 9 の対領 $g_1 + \alpha$ $g_1 + \alpha$ В 8 8 В $g_n + \alpha$ В В 8 В g₁+ (g1+(B1十(g1+, g, + .g g, + 'g g, + (<u></u>후 **,** # 電源電圧 バイアス電流 引制御回路 717の電流 <u>-</u>= ۍ. 6 電源電圧 バイアス電流 制御回路 の 17の電圧 線形動作モー > > >-5 > > > > > > **(4)** 可変利得 Ø増幅器14 の利得 @ $\tilde{\mathbf{z}}$ <u>g</u> Ø **20** ğ Ø Ø РŽ ٣ 찙 Ą 時間時間 t(1,3) t(1,4) t(1,5) t(1,6) t(n,1) t(n,2) t(n,3)t(n,4) t(n,5)t(n,6)

voltage of supply voltage/bias current control

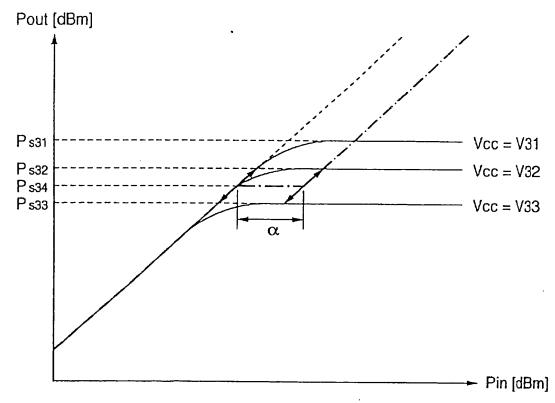
circuit 17

supply voltage/bias current control current of cifcuit 17

Fg.5









17: supply voltage/bias current control circuit

15: high-frequency power amplifier

14: variable gain amplifier

11: amplitude/phase extraction portion

12: phase modulation means

21: mixer

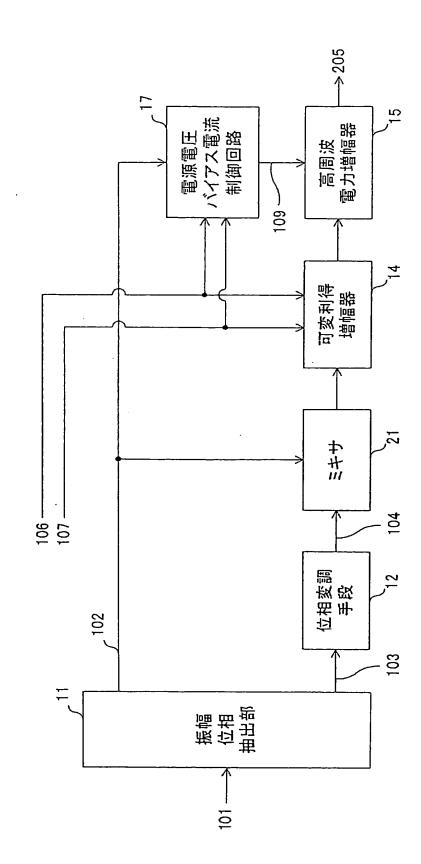
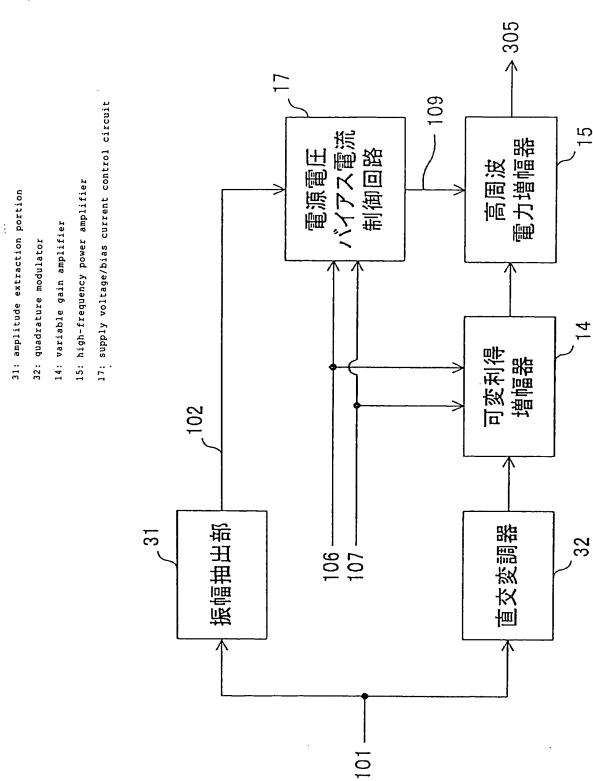


Fig.8



F'3.9

